



State of California—Health and Human Services Agency
Department of Health Services



ARNOLD SCHWARZENEGGER
Governor

WATER SUPPLY PERMIT AMENDMENT
Issued To

City of Fresno
Public Water System No. 1010007

By The
California Department of Health Services,
Division of Drinking Water and Environmental Management
Southern California Field Operations Branch

ORIGINAL PERMIT NO. 03-89-030

DATE OF ISSUE: November 20, 1989

PERMIT NO. **03-11-05PA-002**

EFFECTIVE DATE: **June 27, 2005**

WHEREAS:

1. The City of Fresno (City) submitted an application, dated May 29, 2004, to the California Department of Health Services for an amendment to the Domestic Water Supply Permit issued to the City of Fresno Water System issued on November 20, 1989.
2. The purpose of the amendment, as stated in the application, is to allow the City to operate a new surface water treatment plant in the water system.
3. The City has submitted supporting information necessary to evaluate the application.
4. The California Department of Health Services has evaluated the application and the supporting material and has determined that the new surface water treatment plant complies with all applicable drinking water requirements.

THEREFORE:

1. The California Department of Health Services hereby approves the application submitted by the City of Fresno Water System for a permit amendment. The Domestic Water Supply



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Southern California Drinking Water Field Operations Branch
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Internet Address: <http://www.dhs.ca.gov/ps/ddwem/>

Permit issued to the City of Fresno Water System on November 20, 1989 is hereby amended as follows:

- a) The City is allowed to operate the new surface water treatment plant in the water system.
2. This permit amendment is subject to the following provisions:
- a) The City of Fresno is permitted to use the Enterprise Canal and the Friant-Kern Canal as sources of raw water supply for the new surface water treatment plant.
 - b) The City's surface water treatment plant is permitted for operation at a maximum flow rate of 30 MGD with all six filters in service and 25 MGD with one filter out of service.
 - c) The City's surface water treatment plant is classified as a T5 water treatment facility in accordance with Title 22 of the California Code of Regulations. As such, the minimum certification levels of the chief operator and shift operator are T5 and T3, respectively.
 - d) The City shall operate the new surface water treatment plant in accordance with the plant operations plan, dated June 2004, that has been approved by the Merced District Office of the DWFOB. The City shall submit revisions to the Merced District Office of the DWFOB whenever changes to the operations of the surface water treatment plant occur.
 - e) The City shall monitor the raw surface water source daily for total coliform and fecal coliform or *E. coli* bacteria. The coliform tests shall be performed using a density analytical method and the results reported in units of MPN per 100mL. The results from the source monitoring shall be submitted monthly to Merced District Office of the DWFOB by the 10th day of the following month.
 - f) The surface water treatment plant will be required to provide at least 4.0 logs reduction of *Giardia* cysts and 5.0 logs reduction of viruses whenever the median raw water *E. coli* bacteria levels exceed 200 MPN/100 mL using the MMO-MUG analytical method, as determined from the bacteriological results of the last seven daily samples.
 - g) The City shall conduct a tracer study of the ozone contact basins to determine the disinfectant contact time for each basin. The tracer study shall be completed and a report summarizing the study results submitted to the Merced District Office of the DWFOB by August 31, 2005.
 - h) The City shall conduct an evaluation of the waste washwater reclamation process to determine the modifications that can be implemented to lower the turbidity levels in the recycled water before it is returned to the raw water pipeline near the initial chemical flash mix area. A report summarizing the results of the evaluation and the proposed modifications shall be submitted to the Merced District Office of the DWFOB by September 30, 2005.

This permit amends and adds to the existing Water Permit No. 03-89-030, which was granted to the City of Fresno on November 20, 1989, and subsequently amended by the Department on July 5, 1990, September 26, 1994, August 27, 1997, June 10, 1999, and December 6, 2000.

FOR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES

Carl L. Carlucci, P.E.
Senior Sanitary Engineer
Merced District
Southern California Branch
Drinking Water Field Operations

Dated: _____